



PTO/SB/08B (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/035,349
		Filing Date	October 19, 2001
		First Named Inventor	Schneider, Luke V., et. al.
		Art Unit	1634
		Examiner Name	Chakrabarti, Arun K.
Page 3 of 3	Attorney Docket Number	020444-000710US	

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AC	AA	2002/0168642 A1	11-14-2002	Drukier	
	AB	5,625,184	04-29-1997	Vestal et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
✓	AC	HOBBA et al., "The insulin-like growth factor (IGF) binding site of bovine insulin-like growth factor binding protein-2 (bIGFBP-2) probed by iodination" J. Biol. Chem. 271(48):30529-30536 (11/29/1996)	
AC	AD	THOMSSON et al., "Sequencing of sulfated oligosaccharides from mucins by liquid chromatography and electrospray ionization tandem mass spectrometry" Anal. Chem. 72(19):4543-4549 (10/01/2000)	

Examiner Signature	<i>Arun K. Chakrabarti</i>	Date Considered	10/16/03
-----------------------	----------------------------	--------------------	----------

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
² Applicant's unique citation designation number (optional). ³ Applicant is to place a check mark here if English language Translation is attached.
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.
 60022279 v1



PTO/SB/048 (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

See also Form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 6**Complete if Known**

Application Number	10/035,349
Filing Date	October 19, 2001
First Named Inventor	Schneider, Luke V., et. al.
Art Unit	1645
Examiner Name	Not yet assigned
Attorney Docket Number	020444-000710US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AC	AA	US-6,194,144 B1	02/27/01	Koster	
	AB	US-6,027,890-	02/22/00	Neas et al.	
	AC	US-5,667,984	09/16/97	Parikh et al.	
	AD	US-4,830,010	05/18/89	Marshall	
	AE	US-5,366,832	02/07/95	Wagner et al.	
	AF	US-6,379,971	04-2002	Schneider et al.	
	AG	US-6,335,526	01-2002	Takada et al.	
	AH	US-6,329,146	12-2001	Crooke et al.	
	AI	US-6,277,644	08-2001	Farnsworth et al.	
	AJ	US-5,470,753	11-1995	Sepetov et al.	
	AK	US-5,538,897	07-1996	Yates, III et al.	
	AL	US-5,827,659	10-1998	Patterson	
	AM	US-5,919,709	07-1999	Parmelee et al.	
	AN	US-6,004,770	12-1999	Nelson	
	AO	US-6,017,693	01-2000	Yates, III et al.	
	AP	US-4,842,701	06/27/86	Smith et al.	
	AQ	US-4,994,165	02/19/91	Lee et al.	
	AR	US-5,306,412	04/26/94	Whitehouse et al.	
	AS	US-5,505,832	04/09/98	Laukien et al.	
	AT	US-5,856,082	01/05/99	Aebersold et al.	
	AU	US-5,872,010	02/16/99	Karger et al.	
	AV	US-5,174,962	12/29/92	Brennan	
	AW	US-6,359,111	03/19/02	Meyer et al.	
	AX	US-6,391,849	03/27/02	Chait et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
	AY	PCT	WO 02/081661	A2	08/08/02	Schneider et al.		<input type="checkbox"/>
	AZ	PCT	WO 96/33406	A1	10/24/96	Minden et al.		<input type="checkbox"/>
V	BA	PCT	WO 00/11208	A1	03/02/00	Aebersold et al.		<input type="checkbox"/>
AC	BB	PCT	WO 99/32501	A1	07/01/99	Schmidt et al.		<input type="checkbox"/>

Examiner
Signature

Arun K. Chakrabarti

Date
Considered

10/16/03

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ³ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

WC 9060112 v1



PTO/SB/088 (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Applicant Number	10/035,349
		Filing Date	October 19, 2001
		First Named Inventor	Schneider, Luke V., et. al.
		Art Unit	1645
		Examiner Name	Not yet assigned
		Attorney Docket Number	020444-000710US
Sheet	4	of	6

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ²	Number ⁴	Kind Code ³ (if known)				
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS								
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						T ²
AC	BC	Yates, J.R., <i>Anal. Biochem.</i> , 214:397-408 (1993)						
	BD	Scholz, E., <i>J Capillary Electrophor.</i> , 4:287-292 (1997)						
	BE	Biemann, K., <i>Methods Enzymol.</i> , 193:455-79 (1990)						
	BF	Schnoelzer, M., <i>Electrophoresis</i> , 17:945-953 (1996)						
	BG	Zala, J., <i>J. Am. Soc. Mass Spectrom.</i> , 6:428-38 (1995)						
	BH	Stults, J.T., <i>Anal. Chem.</i> , 66:1702-1708 (1993)						
	BI	Zala, J., <i>Methods Mol. Biol.</i> , 61:29-41 (1996)						
	BJ	Huehmer, A.F.R., <i>Anal. Chem.</i> , 69:29R-57R (1997)						
	BK	Rose, K., <i>Biochem. J.</i> , 250:253-259 (1988)						
	BL	Shevchenko, A., <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 93:14440-14445 (1996)						
	BM	Clauser, K.R., <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92:5072-5076 (1995)						
AC	BN	Li, G., <i>Electrophoresis</i> , 18:391-402 (1997)						

Examiner Signature	Arun K. Chakrabarti	Date Considered	10/16/03
--------------------	---------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

WC 9060112 v1



PTO/SB/018 (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/035,349		
		Filing Date	October 19, 2001		
		First Named Inventor	Schneider, Luke V., et. al.		
		Art Unit	1645		
		Examiner Name	Not yet assigned		
Sheet	5	of	6	Attorney Docket Number	020444-000710US

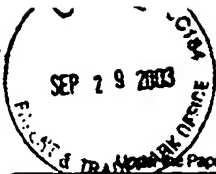
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)		
AC	BO		Murphy, C.M., <i>Anal. Chem.</i> , 67:1644-1645 (1995)			
	BP		Johnson, R. S. et al., <i>International Journal of Mass Spectrom and Ion Process</i> , 86:137-154 (1998)			
	BQ		Vath, J.E. et al., <i>Fresenius Z Anal. Chem.</i> , 331:248-252 (1998)			
	BR		Wagner, D.S. et al., <i>Biol. Mass Spectrom.</i> , 20:419-425 (1991)			
	BS		Huang, Z.-H. et al., <i>Anal. Biochem.</i> , 266:305-317 (1999)			
	BT		Tomer, K.B. et al., <i>J. Am. Chem. Soc.</i> , 105:5487-5488 (1983)			
	BU		Bures, E.J. et al., <i>Anal. Biochem.</i> , 224:364-372 (1995)			
	BV		Aebersold, R. et al., <i>Protein Science</i> , pp. 494-503 (Cambridge University Press (1992)			
	BW		Provisional Patent Application No. 60/415,481, filed 10/01/02			
	BX		Patent Application Serial No. 10/068,359, filed 02/08/02, entitled: METHOD FOR SEQUENCE PROTEINS			
	BY		Patent Application Serial No. 10/035,349, filed 10/19/01, entitled: MASS DEFECT LABELING FOR THE DETERMINATION OF OLIGOMER SEQUENCES			
	BZ		Provisional Patent Application No. 60/242,165, filed 05/07/01			
✓	CA		Patent Application Serial No. 09/513,907, filed 02/25/00, entitled: POLYPEPTIDE FINGERPRINTING METHODS AND BIOINFORMATICS DATA BASE SYSTEM			
AC	CB		Patent Application Serial No. 09/551,937, filed 04/19/00, entitled: LABELING OF PROTEIN SAMPLES			

Examiner Signature	<i>Arun K. Chakrabarti</i>	Date Considered	10/16/03
-----------------------	----------------------------	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
WC 9060112 v1



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/035,349
		Filing Date	October 19, 2001
		First Named Inventor	Schneider, Luke V., et. al.
		Art Unit	1645
		Examiner Name	Not yet assigned
Sheet 6	of 6	Attorney Docket Number	020444-000710US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
AC	CC	Provisional Patent Application No. 60/242,398						
	CD	U. G. et al., "Improvement on sample handling for rapid mass spectrometric identification of proteins resolved by 2D gel electrophoresis". Book of Abstracts, 213th ACS National Meeting, San Francisco, 13-17, Anal. 92 (April 1997)						
	CE	Mann and Wilm, "Error-Tolerant Identification of Peptides in Sequence Databases by Peptide Sequence Tags". Anal. Chem., 66(24) 4390-4399 (December 15, 1994)						
	CF	Jensen et al., "Sequence patterns produced by incomplete enzymatic digestion or one-step Edman degradation of peptide mixtures as probes for protein database searches", Electrophoresis, 17:938-944 (1996)						
	CG	Wilkins et al., "Protein Identification with sequence tags", Current Biology, 6(12):1543-1544 (1996)						
	CH	Wilkins et al., "Rapid Protein Identification Using N-Terminal 'Sequence Tag' and Amino Acid Analysis", Biochemical and Biophysical Research Communications, 221:609-613 (1996) Article No. 0643						
	CI	Wilkins et al. "Protein Identification with N and C-Terminal Sequence Tags In Proteome Projects", J. Mol. Biol., 278:599-608 (1998)						
	CJ							
	CK							
AC	CL							

Examiner Signature	<i>Arjun K. Chakrabarti</i>	Date Considered	10/16/03
-----------------------	-----------------------------	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

WC 9060112 v1